

Name: _____

pa1030: Box multiplication of linear binomials (v5)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	$6x$	3	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
4	$24x$	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(3x + 4)$ and $(2x + 8)$.

*	$3x$	4	
$2x$	$6x^2$	$8x$	
8	$24x$	32	

ANSWER: $6x^2 + 32x + 32$

Question 2

Use the box method to multiply $(-2x + 9)$ and $(6x - 4)$.

*	$-2x$	9
$6x$	$-12x^2$	$54x$
-4	$8x$	-36

ANSWER: $-12x^2 + 62x - 36$

Question 3

Use the box method to multiply $(6x - 5)$ and $(-3x + 9)$.

*	$6x$	-5
$-3x$	$-18x^2$	$15x$
9	$54x$	-45

ANSWER: $-18x^2 + 69x - 45$